### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		2	
LM End	0.00	Issue Type +	Ma	Location *		LS	
Cotogony	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Operation	s & Maintena	nce		0		0
item	Manuals				0		0
DWR ID DWR_RD2091_01_s _ 2013_2							
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
The LMA has copy of O & M manual on file at district office.							
1							

No Photos

LM Start	0.00	Rating **	Α	Issue No.		4			
LM End	0.00	Issue Type +	Ma	Location * LS					
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Emergency Supplies &				0		0		
пеш	Equipmer	nt		0		0			
DWR ID	DWR_RD2	091_01_s _ 201	3_4						
		Comn	nent Cod	le					
	Inspector Comment								
The LMA r	The LMA maintains adequate flood fight supplies and equipment.								

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.	5			
LM End	0.00	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	de/Longitude		
Calegory				Start		End		
Item	Flood Preparedness & Training				0		0	
пеш					0		0	
DWR ID	DWR_RD2	091_01_s _ 201	3_5					
		Comn	nent Cod	le				
Inspector Comment								
The LMA r	naintains a	a good working	g knowle	dge of floor	d res	sponse		

No Photos

activities. And been involved in flood fight training within the last two years.

LM Start	0.01	Rating **	M	Issue No.		18	
LM End	7.46	Issue Type +	Ma	Location *		LS	
Earthen Levee			GPS La	atitud	e/Longitude		
Calegory	Category			Start		End	
Item	Vegetation				47°	37.478825 °	
пеш				-121.0929	43 °	-121.044655 °	
DWR ID	DWR_RD2	091_01_s _ 201	7_18				
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and easements.							

No Photos

Inspector Comment

mapcolor	Commicni

LM Start	0.01	Rating **	М	Issue No.		19	
LM End	7.46	Issue Type +	Ма	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		37.5415	47 °	37.478825 °	
пеш			-121.0929	43 °	-121.044655 °		
DWR ID	ID DWR_RD2091_01_s _ 2017_19						
Comment Code							

No Photos

V1 : Control annual grass and weeds on the levee slopes and easements

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.08	Rating **	М	Issue No.		23		
LM End	0.08	Issue Type + Ma		Location *		WS		
Category	Supplemental			Supplemental		GPS Lat	ituc	le/Longitude
Calegory		Start		End				
Item	DWR UC	onsibility	37.54197	o°	37.541970 °			
пеш			-121.09398	o°	-121.093980 °			
DWR ID								

### Comment Code

#### Inspector Comment

FS\_ID:43207 DS\_ID:23155 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

properly.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal pipe through levee 7.2 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 906+85.

FS Date: 1/29/2015 2:26:31 PM

LM Start	0.08	Rating **	М	Issue No.	23 (cont)
LM End	80.0	Issue Type +	Ma	Location *	WS

### Photo 1 of 3: UCIP\_SP\_2017\_43207\_38148.jpg



Slide gate in 36-inch CMP riser on WS toe.

#### Photo 2 of 3: UCIP\_SP\_2017\_43207\_38147.jpg



Slide gate in 36-inch CMP riser on WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.08	Rating **	М	Issue No.		23 (cont)
LM End	0.08	Issue Type +	Ма	Location *	WS	
Catagory	Category Supplemental				ituc	le/Longitude
Calegory						End
Item	DWR UC	IP LMA Respo	nsibility	37.54197	o°	37.541970°
пеш				-121.09398	0 °	-121.093980 °
DWR ID						
	le					

#### Inspector Comment

FS\_ID:43207 DS\_ID:23155 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

properly.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal pipe through levee 7.2 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555:

1555/17 & 1555/55, 906+85. FS Date: 1/29/2015 2:26:31 PM



CMP stormdrain at outlet off WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

#### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.10	Rating **	U	Issue No.		24
LM End	0.10	Issue Type +	Ma	Location *		WS
Category Supplemental				GPS La	titud	le/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	onsibility	37.5420	30°	37.542030 °
пеш				-121.0943	70°	-121.094370 °
DWR ID						·

### Comment Code

#### Inspector Comment

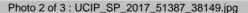
FS\_ID:51387 DS\_ID:23156 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as last inspection this is a nonfunctional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be openned. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (M. Alves - City of Modesto) FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 9 feet below crown. Slide gate in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.07), Drawing No. 07-04-1555, sheet(s) 1555/17 and 1555/55, reference station 907+55]. FS Date: 11/18/2016

LM Start	0.10	Rating **	U	Issue No.	24 (cont)
LM End	0.10	Issue Type +	Ma	Location *	WS



36-inch CMP riser on WS slope.





Slide gate missing from open end of pipe at WS slope.

Location Rating + Issue Type LS: Land Side N/A: Not Applicable Ma: Maintenance Deficiancy N: Not Inspected/Rated A : Acceptable : Minimally Acceptable Ob : Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.10	0.10 Rating ** U I		Issue No.		24 (cont)	
LM End	0.10	Issue Type + Ma		Location *	WS		
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	37.54203	0 °	37.542030	0
item				-121.09437	0 °	-121.094370	0
DWR ID							

### Comment Code

#### Inspector Comment

FS\_ID:51387 DS\_ID:23156 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as last inspection this is a nonfunctional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be openned. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (M. Alves - City of Modesto) FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 9 feet below crown. Slide gate in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.07), Drawing No. 07-04-1555, sheet(s) 1555/17 and 1555/55, reference station 907+55]. FS Date: 11/18/2016



Overview of levee crown at pipe crossing.

LM Start	0.23	Rating **	U	Issue No.		15
LM End	0.23	Issue Type +	Ma	Location *	LS	
Category	Earthen L	evee		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		37.54155	0 °	37.541550°
пеш					2 °	-121.096742 °
DWR ID	DWR_RD2	091_01_s _ 201			·	

#### Comment Code

E1: Note and monitor erosion site.

#### Inspector Comment

Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.

#### Photo 1 of 4 : SP\_2017\_RD2091\_318\_15\_20170412\_00008.jpg



Looking west at dip on landward levee shoulder.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.23	Rating **	U	Issue No.		15 (cont)			
LM End	0.23	Issue Type +	Ma	Location *	LS				
Category Earthen Levee				GPS La	tituc	le/Longitude			
				Start		End			
Item	Erosion /	Bank Caving		37.54155	50°	37.541550 °			
пеш				-121.09674	l2°	-121.096742 °			
DWR ID	DWR_RD2	091_01_s _ 201	6_15						
Comment Code									
E4 . Noto	E1 - Note and manitar areaign site								

E1: Note and monitor erosion site.

#### Inspector Comment

Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS



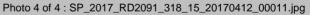
Looking southeast at depression along landward shoulder.

#### Photo 3 of 4: SP\_2017\_RD2091\_318\_15\_20170412\_00010.jpg



Looking south at depression along landward shoulder.

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS





Looking northwest at depression along landward shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

#### Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.24	Rating **	U	Issue No.		25	
LM End	0.24	Issue Type +	Ма	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory						End	
Item	DWR UCIP LMA Responsibility		37.54156	64°	37.541564 °		
пеш				-121.09679	92 °	-121.096792°	
DWR ID							

# Comment Code

Inspector Comment

FS\_ID:51388 DS ID:23158 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

0.24

LM End

UCIP Comments: 11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike A. this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper

abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (M. Alves - City of Modesto)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 10 feet below crown. Flap gate located on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, sheet(s) 1555/17 and 1555/55, reference station 915+00]. FS Date: 11/18/2016

Ма

Rating \*\* LM Start 0.24 Issue No. 25 (cont) Issue Type + Location \*



Pipe visible in canal on WS toe.

#### Photo 2 of 3: UCIP\_SP\_2017\_51388\_38155.jpg



Flapgate has fallen off at WS toe.

Location Rating Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

LS

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.24	Rating **	U	Issue No.		25 (cont)	
LM End	0.24	Issue Type +	Ма	Location *		LS	
Catagony	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			37.54156	64°	37.541564 °	
пеш				-121.09679	92 °	-121.096792 °	
DWR ID							

## Inspector Comment

Comment Code

FS\_ID:51388 DS\_ID:23158

EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike A. this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper

abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (M. Alves - City of Modesto)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 10 feet below crown. Flap gate located on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, sheet(s) 1555/17 and 1555/55, reference station 915+00].

FS Date: 11/18/2016



Concrete headwall under pipe at WS toe.

LM Start	0.25	Rating **	М	Issue No.		16
LM End	0.28	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Category				Start		End
Item	Erosion /	Erosion / Bank Caving			92°	37.541408°
пеш				-121.0970	52 °	-121.097453°
DWR ID	DWR_RD2	091_01_s _ 201	6_16			

#### E1: Note and monitor erosion site.

#### Inspector Comment

Comment Code

Several sites of rill erosion and possible rodent holes along landward shoulder and slope.

Photo 1 of 3 : SP_2017_RD2091	_318_16_20170412_00044.jpg
	Maria Maria
The state of the s	
Control of the second	

Looking east at rill erosion above rodent hole on landward slope. (Spring 2017)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.25	Rating **	М	Issue No.		16 (cont)
LIVI Start	0.23	rtating	IVI			TO (COIIL)
LM End	0.28	Issue Type +	Ма	Location *	LS	
Category	Earthen L	evee		GPS La	titud	le/Longitude
Category						End
Item	Erosion / Bank Caving			37.54149	92 °	37.541408 °
пеш				-121.0970	52 °	-121.097453 °
DWR ID	DWR_RD2	091_01_s _ 201	6_16			
		Comn	nent Coo	le		
E1 : Note and monitor erosion site.						
Inspector Comment						
Several sites of rill erosion and possible rodent holes along landward shoulder and slope.						

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LMEnd	0.28	Issue Type +	Ma	Location *	18



Looking east at rill erosion on landward slope.

Photo 3 of 3: SP\_2017\_RD2091\_318\_16\_20170412\_00013.jpg



Looking east at rill erosion and possible rodent hole on landward slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.63	Rating **	М	Issue No.		26	
LM End	0.63	Issue Type +	Ма	Location *	LS		
Category Supplemental				GPS Latitude/Longitude			
				Start		End	
Item	DWR UC	P LMA Respo	nsibility	37.54122	20°	37.541220 °	
пеш				-121.10388	80°	-121.103880 °	
DWR ID						·	
Comment Code							

## Inspector Comment

FS\_ID:51639 DS ID:23161 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Appears abandoned and if so should be done so properly. (M. Alvez - City of Modesto) FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 12 feet below crown. Flap gate and concrete headwall are located on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.64)]. FS Date: 11/18/2016

LM Start	0.63	Rating **	М	Issue No.	26 (cont)
LM End	0.63	Issue Type +	Ma	Location *	LS



24-inch CMP on concrete headwall with flapgate on WS toe.

#### Photo 2 of 3: UCIP\_SP\_2017\_51639\_38157.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

Rating : Acceptable : Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected

Issue Type Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.63	Rating **	М	Issue No.		26 (cont)	
LM End	0.63	Issue Type +	Ма	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UCIP LMA Responsibility			37.54122	o°	37.541220°	
пеш				-121.10388	o°	-121.103880 °	
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51639 DS\_ID:23161 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

FS Date: 11/18/2016

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)01/29/2015 Appears abandoned and if so should be done so properly. (M. Alvez - City of Modesto) FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through levee, 12 feet below crown. Flap gate and concrete headwall are located on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 6, September 1961, (HLM 0.64)].

Photo 3 of 3: UCIP\_SP\_2017\_51639\_76677.jpg

View of LS.

LM Start	2.61	Rating **	М	Issue No.		20	
LM End	2.64	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Animal Co	ontrol		37.5201	08°	37.520027 °	
пеш				-121.0931	47 °	-121.092767 °	
DWR ID DWR_RD2091_01_s _ 2017_20							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment

No Photos

Location		
LS : Land Side	N/A: Not Applicable	
WS: Water Side		
CP · Crown		

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence En : Enforcement

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### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	3.91	Rating **	М	Issue No.		21	
LM End	3.91	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Erosion /	37.5068	15°	37.506815 °			
пеш			-121.082780 °		-121.082780 °		
DWR ID DWR_RD2091_01_s _ 2017_21							
		Comn	nent Cod	le			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
Inspector Comment							
Sinkhole at landward side toe							

Photo 1 of 1 : SP_2017_RD2091_318_21_20170412_00045.jpg
The state of the s

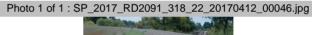
Looking south at possible sinkhole on landward toe.

LM Start	4.25	Rating **	М	Issue No.		22	
LM End	4.25	Issue Type +	Ма	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Animal Control			37.5019	07°	37.501907 °	
пеш				-121.0821	23 °	-121.082123 °	
DWR ID DWR_RD2091_01_s _ 2017_22							

#### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment





Looking south at rodent activity on landward shoulder and slope.

LM Start	4.85	Rating **	U	Issue No.		10
LM End	4.85	Issue Type +	Ма	Location *		LS
Catagoni Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End
Item	Animal Co	ontrol		37.4941	15 °	37.494115 °
пеш				-121.0781	00 °	-121.078100 °
DWR ID DWR_RD2091_01_f _ 2016_10						

#### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

Several large rodent holes on landward slope.

### Photo 1 of 3 : SP\_2017\_RD2091\_318\_10\_20170412\_00001.jpg



Looking south at several rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	4.85	Rating **	U	Issue No.	10 (cont)		
LM End	4.85	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee	ree		GPS Latitude/Longitude		
Calegory				Start		End	
Item	Animal Control			37.4941	15°	37.494115°	
пеш				-121.078100 °		-121.078100 °	
DWR ID	DWR_RD2091_01_f _ 2016_10						
Comment Code							
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
Inspector Comment							
Several large rodent holes on landward slope.							

LM Start	4.85	Rating **	U	Issue No.	10 (cont)
LM End	4.85	Issue Type +	Ma	Location *	LS



Looking south at close-up view of rodent holes on landward slope.

#### Photo 3 of 3: SP\_2017\_RD2091\_318\_10\_20170412\_00003.jpg



Looking west at close-up view of rodent holes on landward slope.

LM Start	5.20	Rating **	М	Issue No.	13	
LM End	5.20	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Slope Stability		37.49075	66°	37.490756 °		
item				-121.07341	0°	-121.073410 °
DWR ID	DWR ID DWR_RD2091_01_f _ 2016_13					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent						

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Vehicle traffic damaging slope on waterward and landward slope.

### Photo 1 of 2: SP\_2017\_RD2091\_318\_13\_20170412\_00006.jpg



* Location		** Rating		+ Issue Type		
	LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy		
	WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence		
	CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement		

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

	_						
LM Start	5.20	Rating **	М	Issue No.		13 (cont)	
LM End	5.20	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Stability			37.4907	66°	37.490756°	
пеш				-121.0734	10°	-121.073410 °	
DWR ID	DWR ID DWR_RD2091_01_f _ 2016_13						
	Comment Code						
S3 : Repai	r the levee	slope damag	ed by ve	hicle traffic	and	d prevent	
access wh	ere possib	le.					
Inspector Comment							
Vehicle traffic damaging slope on waterward and landward slope.							

Photo 2 of 2 : SP_2017_RD2091_318_13_20170412_00007.jpg

Looking at damage on waterward slope.

LM Start	5.92	Rating **	М	Issue No.		12
LM End	5.92	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Trim / Thin Trees			37.4859	98°	37.485998°
item	item				23 °	-121.063323 °
DWR ID	DWR ID DWR_RD2091_01_f _ 2015_12					
	Commont Codo					

#### Comment Code

T1 : Trim trees to at least five feet above ground level.

#### Inspector Comment

LM Start	5.92	Rating **	М	Issue No.	12 (cont)
LM End	5.92	Issue Type +	Ma	Location *	LS

#### Photo 1 of 2: SP\_2017\_RD2091\_318\_12\_20170412\_00004.jpg



Looking north at untrimmed tree at landward toe.

Photo 2 of 2: SP\_2017\_RD2091\_318\_12\_20170412\_00005.jpg



Look southeast at untrimmed tree at landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/12/2017 04/12/2017	Richard Willoughby

LM Start	7.42	Rating **	U	Issue No.		8	
LM End	7.45	Issue Type +	Ма	Location *	LS		
Category Earthen Levee		GPS Latitude/Longitude					
Calegory		Start		End			
Item	Erosion / Bank Caving		37.479308°		37.478998°		
пеш				-121.044708 °		-121.044660 °	
DWR ID	R ID DWR_RD2091_01_s _ 2017_8						
Comment Code							
E2 : Schedule repair of erosion site prior to the next inspection.							
Inspector Comment							
Repaired area with concrete containing rebar. Need to remove rebar.							

1
9
3

Photo 1 of 2: SP\_2017\_RD2091\_318\_8\_20170412\_00047.jpg

Looking east at concrete rubble with rebar at landward toe next to canal.

# LM Start 7.42 Rating \*\* U Issue No. 8 (cont) LM End 7.45 Issue Type + Ma Location \* LS

Photo 2 of 2: SP\_2017\_RD2091\_318\_8\_20170412\_00048.jpg



Looking northeast at concrete rubble with rebar at landward toe next to canal.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	04/12/2017 04/12/2017	Richard Willoughby

LM Start	0.02	Rating **	М	Issue No.	2	
LM End	0.05	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Vegetation			37.482435°		37.482727°	
item				-121.051233 °		-121.050915 °
DWR ID DWR_RD2091_02_s _ 2017_2						
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						



Looking east at typical view of landward slope.

LM Start	0.02	Rating **	М	Issue No.		3
LM End	0.05	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start	End	
Item	Vegetation		37.482435 °		37.482727°	
пеш	item		-121.0512	33 °	-121.050915 °	
DWR ID DWR_RD2091_02_s _ 2017_3						
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and						

easements.

Inspector Comment



Looking west at typical view of waterward slope.

\* Rating

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement